TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-08-05** **Date: 10-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore
Customer's Reference	:	BBMP/EE/BTP/WO/138/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-05-01
Sample Type	:	Priya Cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	09-05-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	3.48	_
2	Finess by Air permeablity method (m^2/kg, Min)	268.5	225m^2/kg, Min
3	Density (gm/cc)	3.22	_
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

Note:
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Prepared by
Harshitha

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ವಿದ್ಯಾರಣ್ಯಪುರ ಉಪ ವಿಭಾಗ
ಯಲಹಂಕ ವಲಯ,
ಬೃ. ಬೆಂ. ಮ. ಪಾ., ಬೆಂಗಳೂರು-9

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-05-08-05** **Date: 06-06-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore
Customer's Reference	:	BBMP/EE/BTP/WO/138/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-05-01
Sample Type	:	Priya Cement 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	09-05-17

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	54.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-05-08-05** **Date: 12-05-2017**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore
Project Name	:	Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/138/2016-17
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-05-02
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	08-05-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	489	489	3.3	96.7	90-100
3	20 mm	7750	8239	54.9	45.1	30-70
4	10 mm	3738	11977	79.8	20.2	10-35
5	4.75 mm	2658	14635	97.6	2.4	0-5
6	Pan	365	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-05-08-05** **Date: 12-05-2017**

Sample ID No : 2017-05-08-05-02

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**13.8**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**12.1**	
3	Specific Gravity	**2.67**	_
4	Bulk Density(Loose) (Kg/l)	**1.54**	_
5	Bulk Density(Compacted) (Kg/l)	**1.56**	_
6	Water Absorption(%)	**0.22**	_

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Prepared by
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-03** **Date: 22-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore

Customer's Reference : BBMP/EE/BTP/WO/138/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-03-01

Customer ID : CC Cubes

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 22/05/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Cubes	M15	15/05/2017	22/05/2017	150.11 X 150.64 X 150.87	22613	8.175	273.6	12.1	12.2
2	CC Cubes	M15	15/05/2017	22/05/2017	150.46 X 150.11 X 150.44	22586	8.182	268.8	11.9	
3	CC Cubes	M15	15/05/2017	22/05/2017	150.98 X 150.41 X 150.78	22709	8.144	283.9	12.5	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2017-05-20-03** **Date: 12-06-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/138/2016-17

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 20-05-17

Sample ID No : 2017-05-20-03-02

Customer ID : CC Cubes

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 12/06/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	CC Cubes	M15	15/05/2017	12/06/2017	149.55 X 150.72 X 150.66	22540	8.175	392.2	17.4	17.4
2	CC Cubes	M15	15/05/2017	12/06/2017	150.17 X 150.64 X 150.88	22622	8.144	398.1	17.6	
3	CC Cubes	M15	15/05/2017	12/06/2017	150.34 X 150.66 X 150.87	22650	8.175	387.3	17.1	

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TEST RESULTES FOR MS RECTANGULAR POLE

Lab ID : **CP-2017-05-19-01** **Date: 22-05-17**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.

Address : Vidyaranyapura Sub division, BBMP, Bangalore.

Project Name : Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.

Agency : Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore.

Customer's Reference : BBMP/EE/BTP/WO/138/2016-17

Sourse of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 19-05-17

Sample ID No : 2017-05-19-01/02

Type of Sample : M.S Rectangular Pole(65X65X6)mm

Reference to BIS codes : IS 2062:2011

Date of testing : 20-05-17

TESTS RESULTS FOR M.S RECTANGULAR POLES MADE OUT OF 2 EQUAL ANGLES OF 65 X 65 X 6 MM WELDED TOGETHER

SL.NO	Description	Result	Required as per IS Code 2062:2011	Remarks
1	Weight/Meter (Kg /m)	5.81	–	Satisfactory
2	Yeild stress (N/mm2)	278	250N/mm^2	Satisfactory
3	Tensile Strength (N/mm2)	485	410N/mm^2	Satisfactory
4	Elongation Percentage (%)	23.5	Min23%	Satisfactory
5	Bend Test	Satisfactory	–	Satisfactory

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TEST RESULTES FOR MS BLOCK PIPE

Lab ID	:	**CP-2017-05-19-01** **Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Agency	:	Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.
Project Name	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore.
Customer's Reference	:	BBMP/EE/BTP/WO/138/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	19-05-17
Sample ID No	:	2017-05-19-01/01
Type of Sample	:	M.S Block Pipe
Reference to BIS codes	:	IS 2062: 2011
Date of testing	:	20-05-17

TESTS RESULTS FOR MS BLOCK PIPE 38MM DIA, HEAVY GAUGE 14

Sl. No	Description	Result	Required as per as IS Code 2062: 2011	Remarks
1	Yeild Stress (N/mm2)	299	250N/mm^2	Satisfactory
2	Tensile Strength (N/mm2)	509	410N/mm^2	Satisfactory
3	Elongation Percentage (%)	24	Min 23%	Satisfactory

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2017-05-08-05** **Date: 12-05-17**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub division, BBMP, Bangalore.
Project Name	:	Development of playground at Varadharajanagara in Ward no.11, Vidyaranyapura Sub division.
Agency	:	Executive Engineer, KRIDL, No.119, 11th cross, Silvestra arcade, 3rd floor, East park road, Malleshwaram, Bangalore
Customer's Reference	:	BBMP/EE/BTP/WO/138/2016-17
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-05-17
Sample ID No	:	2017-05-08-05-03
Sample Type	:	Fine aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	08-05-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0	100	100	100	100	100
2	4.75 mm	77	77	7.7	92.3	90-100	90-100	90-100	95-100
3	2.36 mm	153	230	23	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	95	325	32.5	67.5	30-70	55-90	75-100	90-100
5	600 micron	148	473	47.3	52.7	15-34	35-59	60-79	80-100
6	300 micron	385	858	85.8	14.2	5-20	8-30	12-40	15-50
7	150 micron	67	925	92.5	7.5	0-10	0-10	0-10	0-15
8	Pan	75	1000	100	0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2017-05-08-05** **Date: 12-05-17**

Sample ID No : 2017-05-08-05-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.37	_
2	Specific Gravity	2.58	_
3	Material finer than 75 micron(%)	5.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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